

F61

AU-A-48825/85

IGTI- * T65 88-021790/04 * AU 8777-651-A
 Coin operated amusement machine with rotating reel module - has
 solenoid in operation with trip lever to pivot lever to release position
 in response to electrical signal

IGT 27.08.87-AU-077651 (24.10.84-US-684185)

W04 (03.12.87) G07F.17/34

27.08.87 as 077651 (1819PH)

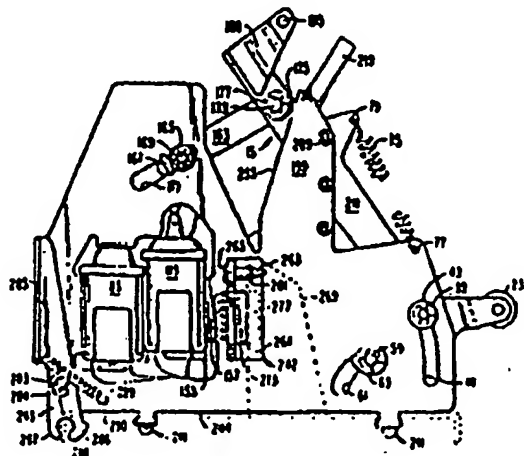
The amusement machine module includes a base plate and a linkage for coupling a pawl arm to the base plate while guiding the arm through a three-phase movement. The three-phase movement comprises a first phase in which an engaging end of the arm travels from a reel set to a spin position, a second phase in which the engaging end travels from the reel spin to a cocked position, and a third phase in which the engaging end travels from the cocked to the reel set position. The linkage comprises a spring bias for biasing the arm.

A trip lever is pivotally mounted base to lock the arm in the cocked position after the second phase, and in the reel set position after the third-phase. The lever is pivotable to a release position for releasing the arm from the cocked and the reel set positions. A cam follower is coupled to the arm to move the arm from the reel spin to the cocked position, when external force is applied. The module further comprises solenoid cooperating the trip lever to pivot the lever to the release position upon receipt of a predetermined electrical signal.

(51pp Dwg.No.3/16)

N88-016590

T3-H5



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AU-A-48825/85

IGTI- ★ T05 88-021789/04 ★ AU 8777-450-A
 Reel assembly for coin operated amusement machine - has code
 with electronically readable pattern on each tooth of sprocket for
 reel position monitoring

IGT 27.08.87-AU-077650 (24.10.84-US-664185)

W04 (03.12.87) G071-17/34

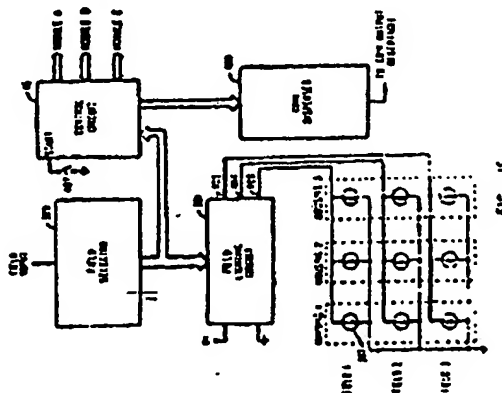
27.08.87 as 077650 (1819PH)

The reel assembly comprises a reel and sprocket mounted to relative rotational movement about a common axis and a device bridging the reel and sprocket for preventing relative rotational movement in a predetermined rotational direction when the reel and sprocket are in a predetermined angular orientation. The device also permits relative rotational movement from the predetermined angular orientation in the opposite rotational direction. A resilient member engages each of the reel and sprocket to resist relative rotational movement opposite to the predetermined direction when a force in that direction is applied and returns the reel and sprocket to the predetermined angular orientation when the force subsides.

The assembly also comprises a clutch disc mounted coaxially with and interposed between opposing hub faces of the reel and sprocket with the opposed hub faces urged axially towards each other against the clutch disc. The assembly further comprises ring shaped code coaxially mounted for rotation with the sprocket. The code comprises an electronically readable pattern at each tooth of the sprocket, with at least one of patterns comprising a unique identifiable tracking pattern. The pattern permits electronic monitoring of the rotational position of the reel and sprocket. (50p Dwg.No.15/16)

N88-016499

T5-H5



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IGTI. * T85 86-155978/25 * AU 8548-825-A
Coin operated slot machine - has start-stop solenoids controlled by
processor which randomly pre-selects peripheral fields of reels

IGT 24.10.84-US-664185

(01.05.86) G071-17/34

17.10.85 as 048825 (944SH)

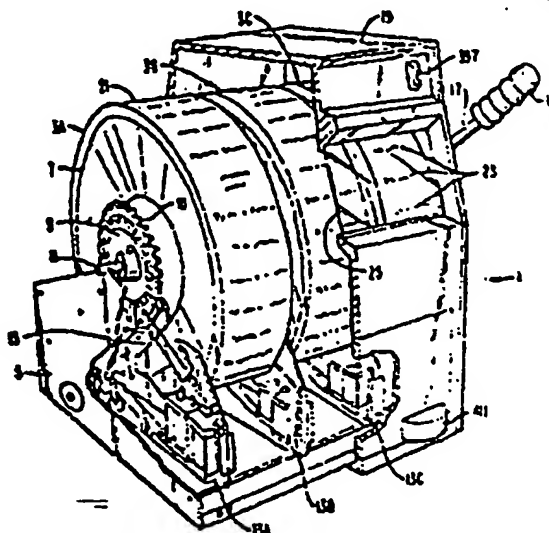
The slot machine has several reels which are co-axially mounted within a frame for relative rotation. Both the rotation of the reels and their arrest are initiated by a single, spring-powered lever provided for each reel. Start and stop solenoids cooperate with the lever to sequentially release pre-tensioned springs for moving the lever in a first direction, to initiate reel rotation, and a second direction, to arrest the reel rotation.

The firing of the solenoids is controlled by a processor which randomly pre-selects the peripheral fields of the reels which are to appear at a game display window of the machine to determine whether or not the play resulted in a win, and if it did, the amount of the payout.

ADVANTAGE - To facilitate the servicing of the slot machine, and in particular the reel spinning and arresting mechanism, the lever and associated springs, solenoids and linkage for each reel are constructed as a unitary module which can be plugged into the machine. (53pp Dwg.No.1/16)

N86-115978

T5-F T5-H



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IGTI- ★ T65 88-021790/04 ★ AU 8777-851-A
Coin operated amusement machine with rotating reel module - has
solenoid in operation with trip lever to pivot lever to release position
in response to electrical signal

IGT 27.08.87-AU-077651 (24.10.84-US-684185)

W04 (03.12.87) G071-17/34

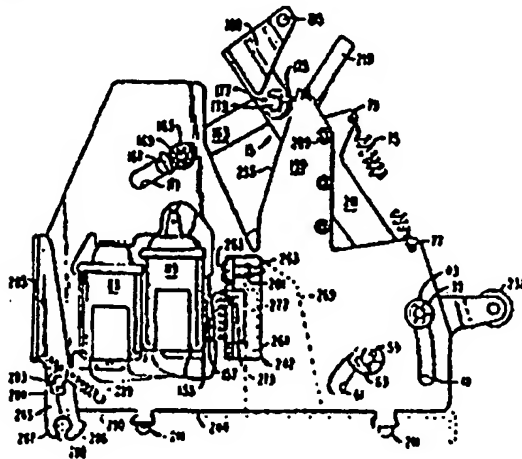
27.08.87 as 077651 (1819PH)

The amusement machine module includes a base plate and a linkage for coupling a pawl arm to the base plate while guiding the arm through a three-phase movement. The three-phase movement comprises a first phase in which an engaging end of the arm travels from a reel set to a spin position, a second phase in which the engaging end travels from the reel spin to a cocked position, and a third phase in which the engaging end travels from the cocked to the reel set position. The linkage comprises a spring bias for biasing the arm.

A trip lever is pivotally mounted base to lock the arm in the cocked position after the second phase, and in the reel set position after the third-phase. The lever is pivotable to a release position for releasing the arm from the cocked and the reel set positions. A cam follower is coupled to the arm to move the arm from the reel spin to the cocked position, when external force is applied. The module further comprises solenoid cooperating the trip lever to pivot the lever to the release position upon receipt of a predetermined electrical signal.
(51pp Dwg.No.3/16)

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AU-A-48825/85

IGTI-★ T05 88-021789/04 ★ AU 8777-650-7
Reel assembly for coin operated amusement machine - has code with electronically readable pattern on each tooth of sprocket for reel position monitoring

IGT 27.08.87-AU-077650 (24.10.84-US-684185)

W04 (03.12.87) G071-17/34

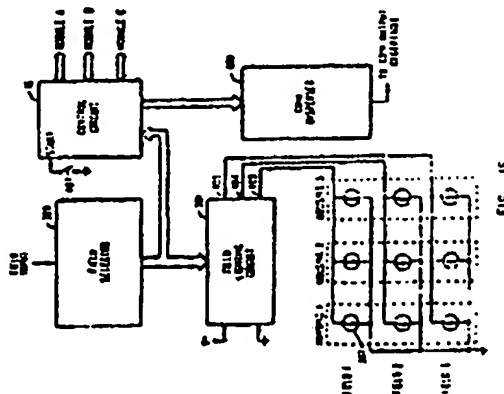
27.08.87 as 077650 (1819PH)

The reel assembly comprises a reel and sprocket mounted for relative rotational movement about a common axis and a device bridging the reel and sprocket for preventing relative rotational movement in a predetermined rotational direction when the reel and sprocket are in a predetermined angular orientation. The device also permits relative rotational movement from the predetermined angular orientation in the opposite rotational direction. A resilient member engages each of the reel and sprocket to resist relative rotational movement opposite to the predetermined direction when a force in that direction is applied and returns the reel and sprocket to the predetermined angular orientation when the force subsides.

The assembly also comprises a clutch disc mounted coaxially with and interposed between opposing hub faces of the reel and sprocket with the opposed hub faces urged axially towards each other against the clutch disc. The assembly further comprises ring shaped code coaxially mounted for rotation with the sprocket. The code comprises an electronically readable pattern at each tooth of the sprocket, with at least one of patterns comprising a unique identifiable tracking pattern. The pattern permits electronic monitoring of the rotational position of the reel and sprocket. (50p Dwg.No.16/16)

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IGTI- ★ T05 86-155978/25 ★ AU 8548-825-A
Coin operated slot machine - has start-stop solenoids controlled by
processor which randomly pre-selects peripheral fields of reels

IGT 24.10.84-US-664185

(01.05.86) G07F-17/34

17.10.85 as 048825 (044SH)

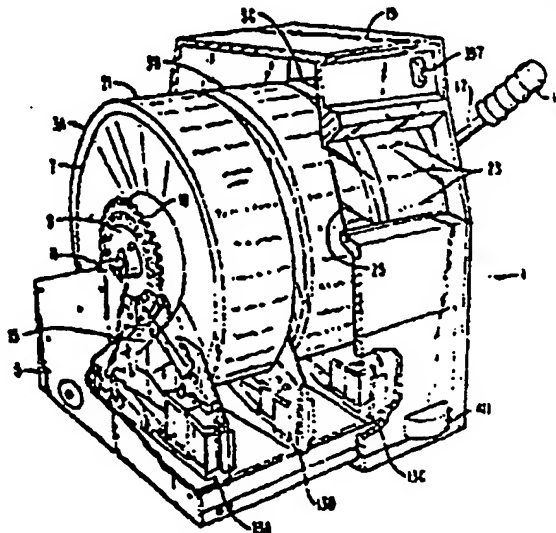
The slot machine has several reels which are co-axially mounted within a frame for relative rotation. Both the rotation of the reels and their arrest are initiated by a single, spring-powered lever provided for each reel. Start and stop solenoids cooperate with the lever to sequentially release pre-tensioned springs for moving the lever in a first direction, to initiate reel rotation, and a second direction, to arrest the reel rotation.

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